VANJEE LiDAR

VanJee LiDAR would create vision for robotics (AGV +AMR) to realize autonomous operation with utmost safety.

VanJee LiDAR

Mini SLAM Navigation LiDAR WLR-716 Mini

WLR-716Mini

Description

VanJee 716Mini LiDAR is a SLAM navigation LiDAR with ultra-small size (50mm×55mm×72.5mm) and powerful performance (Point frequency would reach to 32.4K and scanning frequency up to 25Hz). Therefore, robotics could save more space due to LiDAR size advantage and becoming more agile. Due to LiDAR's ultra-high ranging accuracy (±20mm), AMR can operate flexibly in most warehouses and factories complicated operation scenarios.

WLR-716Mini

Advantages

Mini model

Only 50mm × 55mm × 72.5mm, convenient to integration, and suitable for various application scenarios.

Powerful detection function

Anti-collision protection suitable for various applications through integrated IO zone evaluation function.

High quality point cloud

±20mm ranging accuracy and can detect all kinds of objects, stable navigation in complex environment.

Modular design & automated production

Guarantee the supply capacity.

VANJEE Headquarters

Building No.12, ZPark, Haidian District, Beijing 100193, China

+86 10 59766766 www.vanjee.net ibd@vanjee.net

VANJEE LiDAR

WLR-716Mini

Parameters

Basic Parameters			
Model	WLR-716Mini	Operating Temperature	-25℃-50℃
Size	50mm × 55mm × 72.5mm	Storage Temperature	-30℃-70℃
Net Weight	0.3kg	Laser Wavelength	905nm
Power Consumption	4W	Operating Voltage	9~28V DC
Performance Parameters			
Scanning Frequency	15Hz/25Hz	Data Rates	27000/32400 points/sec
Ranging Distance	50m(15m@10%)	Horizontal FoV	270°
Operating Range	0.05-50m	Horizontal Resolution	0.125°@15HZ/0.25°@25HZ
Ranging Accuracy	±20mm (Typical Value)	Response Time	<67ms
Relevant Certification			
Ingress Protection	IP66 GB / T 4208-2007	Communication Interface	Ethernet and IO
Laser Safety	Class I (eye safety) EN 60825-1:2014		

WLR-716Mini

Scenarios


Delivery Robot


Cleaning Robot


Inspection Robot


Disinfection Robot


Industrial AGV/AMR

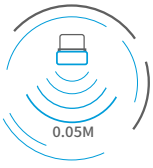
VanJee LiDAR

Mini Anti-Collision LiDAR WLR-718H

Description

VanJee LiDAR WLR-718H is a 2D protective LiDAR with I/O anti-collision function.The LiDAR is convenient for integration into narrow installation areas such as fork tip of autonomous forklift due to its ultra-thin design(58mm *51mm X* 42.9mm). In addition, the LiDAR has comprehensive protection function (360°Horizontal FOV ,25m ranging distance and up to 48 protection zones), thereby providing the utmost safety for mobile or fixed application scenarios.

Advantages



Compact Size

Only 58.3mm×51.3mm×42.9mm

Save assembly space

Flexible I/O Protection Functions

Support up to 48 protection zones

Comprehensive Protection Capability

360°horizontal FOV,0.25°angle resolution and 25m ranging distance

Modular Design& Automated Production

Guarantee the supply capability of mass production

VANJEE Headquarters

Building No.12, ZPark, Haidian District, Beijing 100193, China

+86 10 59766766 www.vanjee.net ibd@vanjee.net

VANJEE LiDAR

WLR-718H Parameters

Basic Parameters 〉〉〉			
Model	WLR-718H	Operating Voltage	12~24VDC
Size	58.3mm×51.3mm×42.9mm	Operating Temperature	-20℃ - 60℃
Net Weight	0.14kg	Storage Temperature	-30℃ - 70℃
Power Consumption	3.7W	Laser Wavelength	940nm
Performance Parameters 〉〉〉			
Scanning Frequency	14Hz	Horizontal FOV	360°
Ranging Distance	0.05~25m(8m@10%)	Horizontal Resolution	0.25°
Ranging Accuracy	±10mm(0.5-5m) ±30mm(Full Range)		
Relevant Certification 〉〉〉			
Ingress Protection	IP65	Electromagnetic Compatibility	GB/T 17626.2-2018
Laser Safety	ClassI(eyesafety)	Vibration	GB/T 2423.10-2019

WLR-718H Scenarios

Autonomous forklift obstacle avoidance

AGV/AMR obstacle avoidance

VanJee LiDAR would create vision for robotics (Forklift+AMR) to realize autonomous operation with utmost safety.

VanJee LiDAR

16-Line Mechanical LiDAR WLR-720

WLR-720

Description

VanJee LiDAR WLR-720 stands out as a long-range 3D LiDAR with 150 meters ranging distance and 16-channel scanning layers. The LiDAR has capability to do **SLAM (simultaneous localization and mapping) navigation** by providing high quality 3D point clouds. Notably, the LiDAR is also good at **target navigation** due to it features 0° horizontal line to detect target perfectly. Moreover, the LiDAR has IMU inside to make AMR do **Inertial Positioning** (provide crucial data including orientation, position tracking and motion sensing). Lastly, VanJee would provide SLAM algorithm to make our AMR customers utilize LiDAR.

WLR-720

Advantages

150M Ranging Capacity
Meet outdoor large-scale scenarios

High level of Ingress Protection
IP67 protection rating

Millimeter Level Positioning Accuracy
Provide SLAM+Target navigation with millimeter level accuracy

Superior Anti-Interference Capability
Multi-return technology and mechanism unaffected by Interference from other LiDARs

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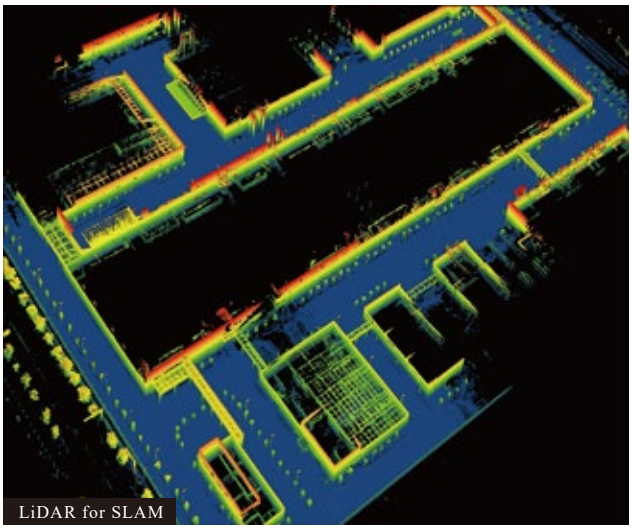
+86 10 59766766 www.vanjee.net ibd@vanjee.net

VANJEE LiDAR

Parameters

Basic Parameters 〉〉〉			
Model	WLR-720	Operating Voltage	DC12-32v
Number of Channels	16	Operating Temperature	-20℃-60℃
Size	Φ105.7×81.5	Storage Temperature	-40℃-85℃
Net Weight	0.91kg	Laser Length	905nm
Power Consumption	12W(Typical Value)		
Performance Parameters 〉〉〉			
Scanning Frequency	5Hz/10Hz/20Hz	Horizontal FOV	360°
Ranging Distance	70m@10% Reflectivity	Horizontal Resolution	0.1°/0.2°/0.4°
Operating Range	0.3-150m	Vertical FOV	30°（-16°~14°）
Ranging Accuracy	±2cm(Typical Value)	Vertical Resolution	2°
Return Mode	Single Return/Double Return		
Relevant Certification 〉〉〉			
Ingress Protection	IP67	Transport Protocol	UDP/IP
Laser Safety	Class1 (Eye Safety)	Time Source	GPS/PTP

Scenarios


LiDAR for SLAM


Outdoor Autonomous Forklift


Multiple Outdoor Autonomous Forklift


Ourdoor Heavy Duty AGV


Autonomous Delivery Vehicle